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THE HORN SPEAKER

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ZENITH RADIO 1936 ZENITH

25 TUBE SUPERHETERODYNE
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CHASSIS Nº 2501-C & 2501-P

Stratosphere

(SERIAL NOS. AFTER 754106

From Art Corbus, Seattle, Washington

CIRCUIT

Radio Frequency Amplifier. This receiver uses a preselector and a tuned R.F. stage on the green band, and a single tuned R.F. stage on the orange and yellow bands. Two tuned R.F. stages are employed on the red band. Due to the extreme difficulty of obtaining usable R.F. gain on frequencies below 18 megacycles, the antenna is coupled directly to the grid circuit of the first detector on the blue band. Double shielding is employed on the entire R.F. section to prevent signal or noise pick-up by the wiring.

First Detector and Oscillator. A 6A7 tube is used as first detector and oscillator. The input grid of a 6A7 tube has a tendency to become positive whenever a strong signal is impressed on it, if there is any appreciable resistance in the grid circuit. The grid return side of the input circuit is connected to one diode plate of the 85 A.V.C. tube so that if at any time the input grid of the 6A7 should become positive, the diode plate will allow a low D.C. path to ground, preventing overload distortion.

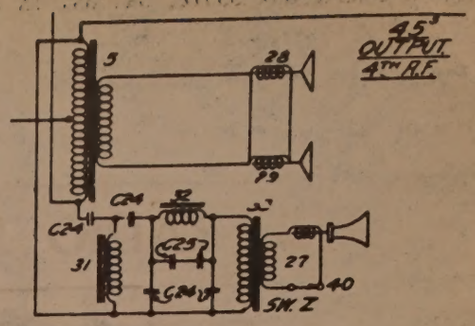
Intermediate Amplifier. The circuit employed in the two stages of intermediate amplification is conventional. The unusual feature of this portion of the receiver is in the transformers which are so designed that the mechanical coupling, and, in turn, the band width or selectivity may be varied continuously without changing the natural period of either primary or secondary coils. This variation of selectivity has no effect on the sensitivity of the receiver.

Delayed Automatic Volume Control. A pick-up winding is incorporated in the third I.F. transformer which feeds I.F. to the control grid of a 6D6 A.V.C. amplifier. The output of this stage is coupled through an untuned transformer to the diode plate of an 85 tube. The plate of the 85 is connected directly to B plus and the control grid to a tap in the diode load resistor. This tube is biased at approximately 10 volts which places a negative bias on the diode plate and no A.V.C. voltage is developed until a signal is tuned in of a strong enough value to swing the diode plate positive. At this point A.V.C. voltage is developed, which in turn makes the grid of the 85 negative and reduces the plate current which reduces the bias and allows still more A.V.C. voltage to be developed. This accumulative action allows excellent automatic control of the stronger signals and eliminates the detrimental effects of A.V.C. on weak signals.

Q.A.V.C. A portion of the resistance load of the 85 diode is incorporated in a potentiometer on the rear of the upper chassis. The arm of this potentiometer

ZENITH STRATOSPHERE. Ultra modern 25-tube instrument. Cabinet design has been dictated by the basic principles of acoustics. Tunes American and Foreign Stations; police, amateur, aviation conversations; ships at sea. 1 dynamic high frequency speaker; 2 concert dynamic speakers (Dimensional Tone). Micro-Harmonic reception. High Fidelity. Black Magnavision Dial. 5 wave bands individually illuminated in colors, 535-63,600 kilocycles. Split-Second and Shadowgraph Tuning; Dual Tuning Ratio. Dual Chassis. 50 inches high; 30 inches wide; 19 inches deep. Price $750.00.

25 Tube
2nd Series
2501-C
2501-P



is connected to the grids of a 79 tube. The two plates of the 79 are connected in parallel and operate a magnetic relay which short-circuits the grids of the push-pull 42 audio driver stage. When a signal is tuned in the grids of the 79 tube become negative stopping the plate current and the relay opens, allowing the audio system of the receiver to operate. The signal level at which this occurs is determined by the setting of the potentiometer arm. A switch, operated by a lever under the band switch knob on the front panel is in series with the 79 plate circuit and when opened makes the Q.A.V.C.circuit inoperative. The shadowmeter is connected in the plate circuit of a separate 6D6 whose control grid is controlled by the A.V.C. voltage. The amplifying action of this tube allows the shadowmeter to operate on very weak stations.

Preamplifier and Audio Driver. The preamplifier consists of two cascade resistance-coupled stages using 76 tubes. The value of the grid resistance on the second stage may be varied by the switch in the upper right-hand corner of the control panel so as to achieve a 400% increase of power sensitivity for use on short wave reception. It is possible to overload the power amplifier when using this high gain. Two audio transformers of special design couple the second audio stage to a push-pull driver stage, using two 42 tubes. The smaller transformer only handles frequencies above 400 cycles and has a rising high characteristic. The large transformer handles frequencies below 400 cycles and is resonated at 30 cycles. The voltage output of each of these transformers is controlled by the tone control.

The Power Output Stage. This consists of eight 45 tubes connected in parallel push-pull. A much better balance is preserved in this stage by using several medium size power tubes rather than a pair of high-power tubes. Also, the voltage requirements are greatly reduced. A 99 ohm resistor is incorporated in the grid circuit of each tube to prevent parasitic oscillation.

Power Supply. There are two rectifying and filtering systems incorporated in the lower power amplifier chassis. One uses a single 523 full wave rectifier and supplies plate current for the upper chassis and bias voltage for the output stage. The second uses two 523 tubes and supplies plate current for the output stage only. Special electrolytic condensers are used in both power supplies. These condensers will make a slight frying sound while the tubes are heating, unlike the more common type of electrolytic condensers. This is not an indication of deterioration.

Reproducers. There are three dynamic reproducers used. The small one in the center reproduces the higher register above 4000 cycles. A filtering system is used in conjunction with this speaker which prevents the lower frequencies from being reproduced. This speaker may be made inoperative whenever desired by means of the switch in the upper left-hand corner of the control panel. The two large concert type dynamics handle all frequencies below 4000 cycles. Two are necessary to handle the 50 watt output of the power stage without distortion. The leads and connections of all three speakers are color coded so as to insure correct connections and proper phasing. These connections must not be reversed.

Tuning Ranges.

Color	Kilocycles	Megacycles	Meters
Green	520 - 1,500	.52 - 1.5	576 - 200
Orange	1,450 - 4,200	1.45 - 4.2	207 - 71
Yellow	3,700 - 10,000	3.7 - 10	81 - 30
Red	8,500 - 23,000	8.5 - 23	35 - 13
Blue	18,000 - 45,000	18 - 45	16.6- 6.5

A 1936 price list shows the Stratosphere at $750.00. My memory says a Ford, Chevrolet or Plymouth were only about $600.00 at that time.

Others in my collection include a Scott Philharmonic in Gothic cabinet and a McMurdo Silver VI which is an outstanding radio. I think I have about 150, all rebuilt like new.

Time is passing, next birthday I will be 75 and working at commercial real estate— I spend about 6 hours a day at work and 3 to 4 on radios— radios, good ones are getting are get here.

Art Corbus
Seattle, Oct. 11 1984

Tubes used are as follows:

6D6	First Radio Frequency Amplifier
6D6	Second Radio Frequency Amplifier
6A7	First Detector and Oscillator
6D6	First Intermediate Amplifier
6D6	Second Intermediate Amplifier
76	Second Detector
2 - 76	Audio Amplifier
2 - 42	Push-Pull Driver Amplifier
8 - 45	Parallel Push-Pull Power Amplifier
79	Electron Relay for Q Circuit
6D6	Shadowgraph Amplifier
85	Automatic Volume Control
6D6	A.V.C. Amplifier
2 - 523	Rectifier for Power Amplifier
523	Rectifier for remainder for receiver

ZENITH RADIO CORP.
CHICAGO, ILL.
U.S.A.

May 30, 1925

SQUIER LOSES AGAIN OVER THE "WIRED" PATENT

ANY patent developed by a Government employe through funds appropriated by Congress belongs to the public, the United States Circuit Court of Appeals ruled in New York City, in denying the appeal of Major-Gen. George O. Squier, former chief signal officer of the United States Army, now retired, in his "wired wireless' suit. The higher tribunal made its decision unanimous and upheld Federal Judge Knox, who had ruled against Squier in the District Court.

Millions of dollars were involved in the decision handed down. The suit involved as a defendant the American Telephone & Telegraph Company, The Westinghouse Electric & Manufacturing Company, the Radio Corporation of America, the General Electric and the Western Electric Company were also interested because of their activities in the development of "wired wireless," or the multiple telephone device.

Through the device, several messages can be transmitted over one wire, instead of one message at a time.

The decision affects, it is said, hundreds of patents now in the Patent Office—the sole work of men attached to the army, navy and marine corps. It also involves other governmental departments where employees have worked out devices which they have patented.

Circuit Judges Hough, Rogers and Manton heard the arguments on appeal. Major-Gen. Squier, as a major during 1909 and 1911, was assigned to do research work in wireless telegraphy for which there had been made available an appropriation by Congress amounting to $30,000, the decision stated. When the officer had accomplished "wired wireless," he had it patented under the act of 1883, which provided that "it would be free to the public."

Commenting on this phase of the evidence the decision stated that "the plaintiff's own acts and his own words prevented him from recovering." Judge Hough expressed the opinion that Major-Gen. Squier, after proclaiming an intent to give the invention to the public, approved statements to the public press regarding his achievement and the benefits the public would derive from the same.

"Of course, the very existence of the suit shows the fit of public spirit has passed," said Judge Hough. "We are satisfied that the plaintiff wished to be generous in 1911. That he should regret that generous emotion is immaterial."

Major-Gen. Squirer asked for an accounting of the profits which the A. T. & T. Co. had made since it had been using "wired wireless," and also prayed for an injunction against infringement upon his patent in the original suit, which he lost. He contended that the Government had a perfect right to utilize his patent, but that private use by any corporation or independent business concern was an infringement upon his rights.

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May 30, 1925

THE RADIO TRADE

Victor to Market a Combination Radio Set and Phonograph

Great Stars, Under Exclusive Contract with Victor, Will Broadcast.

THE VICTOR TALKING MACHINE CO. announced at a dinner at the Hotel Pennsylvania, New York City, that it will market a combined radio-phonograph instrument. The receiver will be the Radio Corporation's Super-Heterodyne. J. G. Paine, counsel for Victor, made the speech announcing the plan.

Another important statement by Mr. Paine was that the Victor Co. will resume broadcasting. Plans have not been perfected, but it is promised that great artists will be on the air. Under this arrangement these great concert and opera singers, as well as instrumentalists, will be paid. In the tests last Winter, John McCormack, Lucrezia Bori and the other big lights in music were not paid.

Mailbox

Jim,

I look forward to receiving your paper each month, but would enjoy it more if you had atricle of current interest by other collectors instead of or in addition to the reprints from RADIO NEWS, etc. For example, you used to have a "Find" column where collectors told how they came upon an exceptional buy on a particular items or group of items. I very seldom read the reprinted articles mentioned above, but of course I may be the only one who feel this way. I just thought I'd let you know.

Best regards
Richard Haneline

EDITOR... Criticisms like the above letter are always welcome and have an impression on the editorial content of THE HORN SPEAKER. Please send in more "find" information, so that we can go back to the "Find" column. We are planning, starting with this edition, to have more information about individual collectors.

Dear Jim,

The enclosed clipping might be of interest to some of your readers

The address there is; 3537 Zenith Avenue South, Minneapolis, Minnesota 55410. (612) 927-6508.

Yours
Ken Ladd
5240 44th Ave. S.
Mpls., MN 55417

Dear Jim:

I have two old radios that I have acquired; Both are console type, one is an Atwater Kent with a battery radio, the cabinet is like a writing desk with letter holders on each side and above the radio. There is a battery shelf below with a grill opening. The other one is also a console with the radio mounted to the lid which when the lid is raised the 3 tube radio comes up with the panel for tuning. The other lid lifts up and is for headphone storage and for a sound reproducer head which goes in a hole for the speaker column which is below. There are two doors below. I imagine one is for a battery and the other opens up the speaker grill. There is no name on this radio. Do you know what I have?

Russ Olmsted
Route 11
Murfreesboro, TN
37130

Reported Zapped

Those "odd electrical gadgets" to which Phil Davies refers in his article, "Hoax Busters" (11/28) just happen to be one of the finest historical collections anywhere devoted to the application of electricity and magnetism in life processes. Since 1976, the Bakken Library's collections of antique scientific instruments and rare books, numbering some 10,000 in all, have attracted scholars throughout the world.

The Library is more than an arena for the Minnesota Skeptics to have "intellectual fisticuffs." We provide an impartial forum for an exchange of philosophical ideas for such diverse groups as Archaeus Project, numerous university departments, professional societies, and a variety of different chamber music groups. We also conduct tours for members of the general public (free by appintment, Monday through Friday, 9-5) and host workshops for high school science teachers. Our role in the educational community is no less than improving the levels of scientific and technological literacy of the citzenry.

John E. Senior, Director
Bakken Library

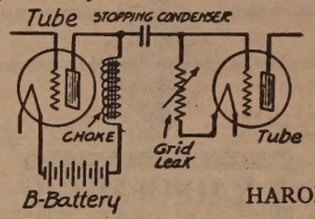
Service Bench

Inductance Required in Chokes.—In order to produce distortionless amplification the impedance of the choke coils or impedance units must be large for reasons which will be explained.

The power in the plate circuit of a tube is divided between the internal resistance of the tube and the external impedance which is furnished by the choke coil. The drop of voltage across the choke is transmitted to the grid of the following tube with but slight loss and it is this voltage applied to the following tube's grid which builds up the signal. The voltage drop across the resistance in the tube is lost so far as amplification is concerned.

In actual practice it is found that with the number of ohms in the external impedance twice as great as the tube resistance in ohms ninety per cent of the tube's maximum possible voltage amplification will be available for amplification by the next tube. With a choke whose impedance is three times that of the tube resistance we will obtain ninety-five per cent of the possible voltage across the choke. With a choke impedance four times that of the tube resistance we will obtain ninety-seven per cent of the possible maximum voltage.

The impedance of the choke changes with frequency, becoming greater as the frequency increases. If we start with an impedance only twice as great as the tube resistance, the changing frequency representing the changing sounds being amplified may cause amplification difference of between ninety per cent



BY
HAROLD P. MANLY

FIG. 1.—The Impedance Coupled Audio Amplifier.

and one hundred per cent, which is ten per cent, a considerable distortion. If we increase the choke impedance to three times the value of the tube resistance the greatest change due to changes of frequency can be only the difference between ninety-five per cent and one hundred per cent, or five per cent. This, of course, is less distortion. Now if we increase the impedance of the choke to four times the value of the tube resistance, which gives ninety-seven per cent of the possible voltage across the choke, the greatest change that can occur between high and low pitched sounds is the difference between ninety-seven per cent and one hundred per cent. This is a difference of only three per cent between the amplification of very low frequencies and of the highest frequencies. A difference as small as this means practically perfect amplification.

The plate resistance of ordinary quarter-ampere amplifying tubes is in the neighborhood of 10,000 to 12,000 ohms. If we wish an impedance in the choke equal to three times the plate resistance in ohms we must have between 30,000 and 35,000 ohms in the choke and if we want an impedance equal to four times the value of the tube resistance we must have an impedance of 40,000 to 50,000 ohms in the choke. This choke impedance should be figured at the lowest frequencies to be amplified.

In most amplifiers a frequency of fifty cycles is the low limit but in some of the better types frequencies of thirty or even twenty-five cycles are well amplified.

The impedance of the choke coil is composed of inductive reactance due to the choke's inductance, of capacitive reactance due to the distributed capacity of the choke's winding, and of resistance in the wire of the choke winding. The inductance is the chief factor in this impedance. The distributed capacity reduces the useful impedance and the wire resistance helps the useful impedance provided this wire resistance is not so large that it greatly reduces flow of current in the plate circuit. The effect of the wire's resistance is the same at all frequencies. The useful effect of the inductance increases with increase of frequency and the harmful effect of the distributed capacity also increases with increase of frequency.

The ideal choke would consist of pure inductance, without either distributed capacity or resistance. Some of the well built chokes come reasonably close to this ideal while some of the poorer coupling chokes come far from it.

The lower the internal resistance or plate resistance of the tube the less impedance is required in the choke to produce satisfactory and uniform amplification of all frequencies. The plate resistance of any tube may be lowered by increasing the plate voltage. But no amount of voltage that safely may be applied to a small dry-cell tube will make it the equal of a real power tube. Under most favorable operating conditions the smallest tubes have plate resistances around 15,000 ohms. The ordinary voltage amplifying tubes have plate resistances around 11,000 ohms while power tubes have plate resistances as low as 2,000 ohms in some cases.

The following table shows the inductance in henries required to provide various degrees of uniformity in amplification of sounds having minimum frequencies of twenty-five cycles and of fifty cycles when using tubes having plate resistances of 2000 ohms, 5000 ohms and 10,000 ohms. The great saving in choke size when using power tubes is shown very clearly. The table assumes that the chokes are formed of pure inductance, the capacity and resistance being neglected.

Inductances in henries are given at the intersections of the lines for plate resistance and the columns for percentage of uniformity in amplification. See also *Distortion*.

INDUCTANCES REQUIRED IN IMPEDANCE COUPLING COILS

Tube Plate Resistance in Ohms	Lowest Note—25-cycle Frequency			Lowest Note—50-cycle Frequency		
	90% *Uniformity*	95% *Uniformity*	97% *Uniformity*	90% *Uniformity*	95% *Uniformity*	97% *Uniformity*
2,000	25	38	50	13	17	25
5,000	65	95	125	31	42	63
10,000	125	190	250	63	84	125

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Message from Joe Willis

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If you have any questions or comments please write me at P.O. Box 14732, Chicago, Illinois 60614 or contact any of the Radiofest '85 committee:

Larry Wright 312-658-5993
George Hausske 312-668-3845
Barry Janov 312-299-1400
Randall Renne 815-288-4701

See you in August!

Joe Willis

Joe Willis

President ARCI

Conference Exhibit

The conference exhibit will feature a large assortment of unique and unusual radio advertising pieces assembled by a number of ARCI collectors. Don't miss this display of early promotional materials!

Banquet Speaker

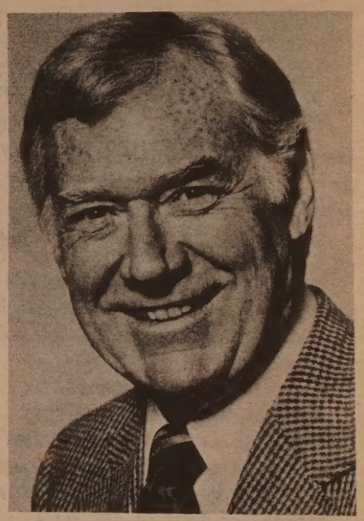
Joe Slattery is a free-lance announcer who works in all areas of radio, television and films. He is seen and/or heard regularly on many national radio and television commercials. For years a top newscaster, he now only occasionally does news because of the press of other commitments. Mr. Slattery has done shows as MC or announcer on ABC, CBS and NBC networks and has worked with many of today's top recording and dramatic artists. He currently is heard as narrator on WILD KINGDOM, which has won many Emmy awards for excellence.

Aside from the broadcast field, he narrates industrial films and slide films for many of the nation's leading companies and government agencies. Although most of his film work is as a narrator, he often appears before the cameras as spokesman or in a variety of roles.

Mr. Slattery is Past National President of the American Federation of Television and Radio Artists, Past President of the Chicago Local of AFTRA, Past President of the Chicago Branch of Screen Actors Guild and was for many years a Governor of the Television Academy. He is currently a member of the National and Local boards of AFTRA, a Trustee of the AFTRA Pension and Welfare Funds and a member of the Board of Directors of the First Trust and Savings Bank of Glenview, Illinois.

He is the 1983 recipient of the prestigious George Heller Memorial Gold Card Award from AFTRA and was honored for his fifteen years of volunteer service with the Volunteer of the Year Award from the Hadley School for the Blind, Winnetka, Illinois.

Hobbies include amateur radio (W9DRL), astronomy (Vice-President of the Society of Amateur Radio Astronomers) and other interests.



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THE ANTIQUE RADIO CLUB OF ILLINOIS

PRESENTS

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for more information contact:

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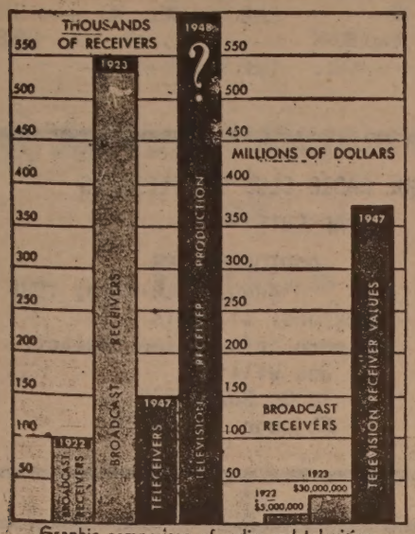
TRIAL ELECTRIC PRODUCTS

304 ROSEBAY YOTSUYA BLDG.,21 ARAKICHO, SHINJUKU-KU, TOKYO 160 JAPAN

*Executive Secretary-Treasurer, Television Broadcasters Association, Inc.



Graphic comparison of radio and television.

RADIO-CRAFT for JANUARY, 1948

Television Steps Out!

By WILL BALTIN*

TELEVISION'S tremendous potential, which has been pent up for so many years, will burst forth across the United States this year with force that will rock the inertia and indifference out of a lot of people. Television talk has been bantered about for so long that it is little wonder that millions of Americans living in the vast hinterlands, who have yet to see a television image sweep across the face of a cathode-ray tube, still accept this new art with the proverbial grain of salt.

Twenty-six years ago when radio broadcasting began to enlist adherents through the magic of a cat's whisker, a crystal, and a pair of headphones, a skeptical public was equally disbelieving. Only after the doubter got a "dose of listening" did he fully realize that a new wonder had been achieved for him to own and enjoy.

Television is finally breaking out of its shell and is now on its way to becoming a principal service. With nearly 150,000 television receivers in the hands of the public as 1947 faded into oblivion, television had at long last ceased to be an experimenter's delight. It is now a commercial product with enormous untapped possibilities.

A recent survey made by the Television Broadcasters Association, Inc., indicated that in 1922, radio's first big year, there were 100,000 radio receivers in use in the United States. In 1947, a comparable year for television, 150,000 television sets were in use. In 1923 there were about 550,000 radio sets in homes and public places. The estimate for television this year runs well over 750,000 receivers.

News-Star-World Tuesday, August 14, 1984

News-Star-World/Ken Mantyla

Monroe man collects radios from 30's, 40's

By LISA TRAMONTANA
Staff Writer

Long before television or computers arrived, the radio served as the major news source and family entertainer.

In the 1930s when the Depression hit, one of the favorite pastimes of Americans was to gather together around the radio and listen to special broadcasts like Roosevelt's "Fireside Chats" or shows like "Gunsmoke," and "The Thin Man."

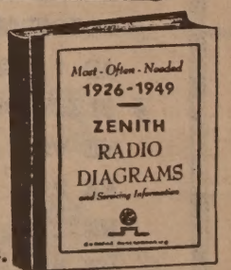
Classic collector

Richard Haneline of Monroe (above) stands among his collection of antique radios. Since beginning his hobby 8 years ago, he says he is always looking to acquire more.

1948

New Release!

SUPREME Radio Manual



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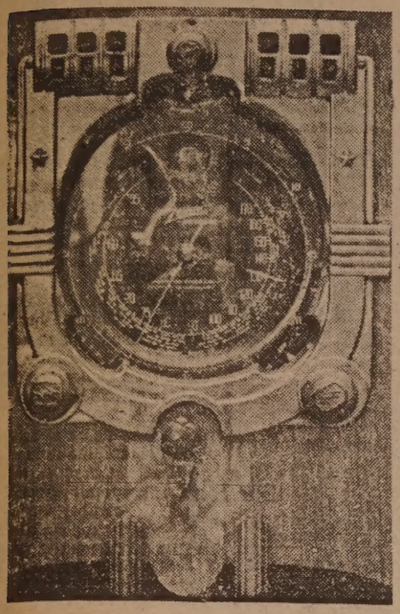

the first radio Haneline repaired and refinished — a 1938 antique Zenith console radio.

Richard Haneline of Monroe collects a part of that past. Eight years ago, he received his grandmother's 1938 Zenith, a large radio housed comfortably within a mahogany cabinet which stands about 3 feet high. "I remember playing with it when I was just a kid," Haneline said. "When she gave it to me, I refinished it, and then got interested in collecting other radios."

Now, that collection numbers about 200, Haneline says. Most are antiques, dating back to the 20's, 30's and 40's.

"Some of them have been given to me," he says, "but most of them are radios I've bought at antique sales, junkyards, and auctions. I used to take my day off from work, and just go riding around looking for places that might sell them."

Most of his collection are the cathedral radios common to the Depression era.

"They were also called beehive radios or midget sets because they were so much smaller than the radios that came before them. During the Depression, people couldn't afford the large consoles, so they bought these," he said. "They were much more compact and had a good sound."

Scattered among his many cathedral radios are large clock-radios, boxed radios and radios that include phonographs. Most of the larger ones stand on four legs and have cabinet style doors which display elaborately detailed trim. In fact, a lot of these older ones are so tall and so broad that they look just like any other regular piece of furniture," he said.

Haneline says it's interesting to note that radio design has come full circle. "The very first radios were made of components. Speakers were usually separate," he says, pointing to a large pair of horn-shaped speakers that resemble two megaphones. "Gradually, they moved on to single unit radios, but now, they're back to components."

He keeps his collection in a room off to the side of his home. This room also serves as his workshop.

"Eventually, I want to get all these radios working again, and sand and refinish them," he said. "I've never found one that couldn't be fixed, but it takes a lot of time — about a month working on and off to completely finish it."

Since he started his collection, Haneline says he's learned a lot about not only electronics, but wood finishing too.

He took his first radio to a television repair shop where he was told they "didn't want to fool with it."

"Then I talked to another collector who fixed his own, and I thought, 'If he can do it, so can I,'" he said. "So, I just started reading books on it and practicing. I've made some mistakes, but eventually, you get good at it."

Haneline says he believes he is collecting a part of the American past.

"To me, it's worth all the effort and time," he said. "The invention of the radio was a major event of the times and they were important to every family that had one. People used to even brag about how many stations they could get and how far away those stations were. To me, it's a part of history. I'm always looking for the next radio, and I don't think I'll ever stop."

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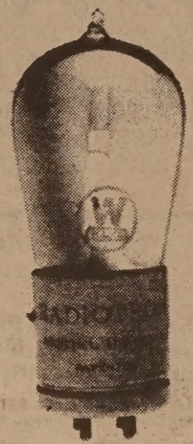

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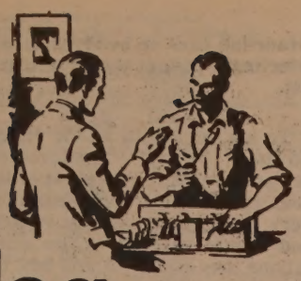

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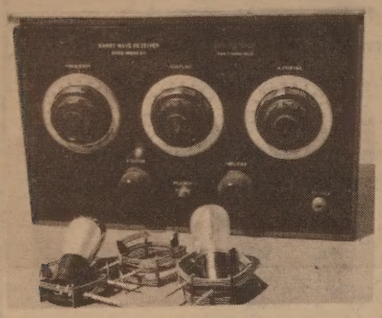

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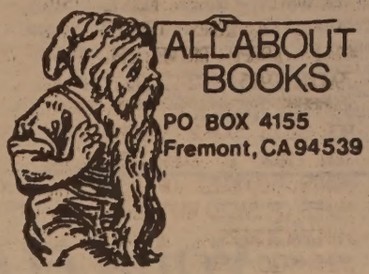

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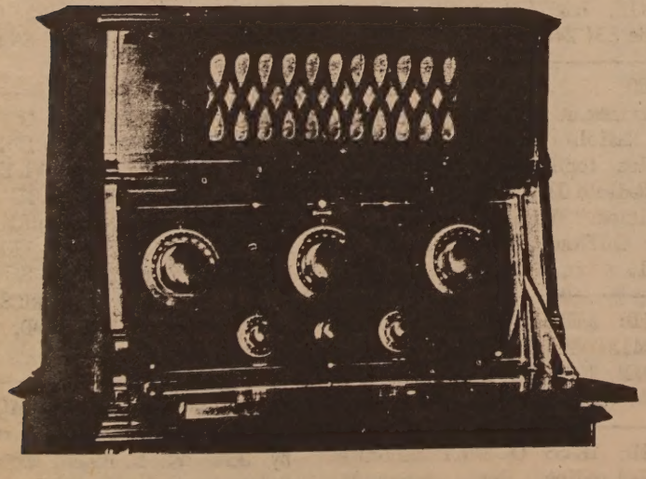

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THE SOCIETY TO PRESERVE AND ENCOURAGE RADIO DRAMA VARIETY AND COMEDY, P.O. BOX 1587, HOLLYWOOD, CALIFORNIA, 90078.

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HOUSTON VINTAGE RADIO ASSOCIATION, 6110 PECAN LANE, KATY, TEXAS 77449.

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NORTHWEST VINTAGE RADIO SOCIETY — Annual dues $12.50. monthly newsletter, THE CALL LETTER and monthly meetings. Write: Ed Charman, Northwest Vintage Radio Society, P. O. box 02379, Portland, OR 97202.

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ARIZONA ANTIQUE RADIO CLUB, a lately formed club that publishes RADIO NEWS, a quarterly bulletin with informative articles and ads. Annual dues are: $10.00 for a year. Write: Lee Sharpe, treasurer, Arizona Antique Radio Club, 2224 W. Desert Cove #205, Phoenix, AZ 85029.

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CALIFORNIA HISTORICAL RADIO SOCIETY is a popular group that publishes a journal six times a year and provides swap meets four times a year for its members. CHRS, P. O. Box 1147, Mountain View, CA 94042-1147.

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***** IMPORTANT ANNOUNCEMENT *****

*****RADIOFEST '85 IS MOVING TO FABULOUS CLOCK TOWER INN IN ROCKFORD, ILLINOIS. Easy access I-90 to Business Route 20 Exit. For reservations outside Illinois 1-800-358-7666. Illinois residents 1-815-398-6000. Date of convention: August 9-10, 1985. For more information write: Joe Willis, P. O. box 14732, Chicago, Illinois, 60614.

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SEND IN YOUR CLUB NEWS — EARLY

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ANTIQUE RADIO COLLECTORS AND HISTORIANS TO HOLD INTERNATIONAL CONVENTION — The Antique Radio Club of America (ARCA) will hold an international convention at Niagara Falls, New York, during June 5 - 8, 1985.

The Club has about 1,000 members who collect and restore antique wireless and radio equipment and who study and record the history of early radio. Antique radio buffs now collect all types of equipment from wireless equipment before World War I to sets of the forties and fifties.

Once a year the Club has a national convention sponsored by a local or regional group of

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collectors. This year the Niagara Frontier Wireless Association of Buffalo will be the sponsor.

Many visitors from Canada and overseas are expected to attend this first ARCA international gathering.

During the convention, there will be speakers, tours of radio collections and tours of the Niagara area. Highlight of the convention will be a massive flea market where radio collectors will swap and sell sets, parts, tubes and associated literature. Many will be looking for that missing tube or part necessary to finish the restoration of a favorite set. There will also be a large auction of radios and associated items.

The recreational and vacation opportunities in the Niagara Falls area, provide endless opportunity for those members of the collectors' family whose interests do not include "old radios."

Information on the convention and information on ARCA membership can be obtained by writing to NFWA, PO Box 68, Central Park Station, Buffalo, NY 14215. —— J. L. Troe, president.

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ALL OF THOSE AT THE ANTIQUE WIRELESS ASSOCIATION are looking forward to several meets this year including one in July at the Lauren Peckham Museum in Breesport. A.W.A. has several new displays including the original version of the Fleming valve in gallows mounting made in 1905. Lauren Peckham's address is: Ormiston Road, Breesport, NY 14816.

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VINTAGE RADIO AND PHONOGRAPH SOCIETY, an organization that is famous for its yearly conventions in the Dallas area. Also it publishes a journal approximately six times a year. Both phonograph and radio collectors are invited to join this society from all over the country. Dues are $13.50 a year. Write: Vintage Radio and Phonograph society, P. O. Box 165345, Irving, TX 75016. It is reported that Dallas VRPS Spring Auction will be held on Saturday, April 13.

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INDIANA HISTORICAL RADIO SOCIETY, 245 N. Oakland Avenue, Indianapolis, IN 46201.

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THE ANTIQUE RADIO CLUB OF ILLINOIS, one of the clubs that conducts large meets of national prominence in the Chicago area. For more information contact: Joe Willis, P. O. 14732, Chicago, Il 60614.

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WELCOME TO SEND IN AN AD ABOUT YOUR CLUB.

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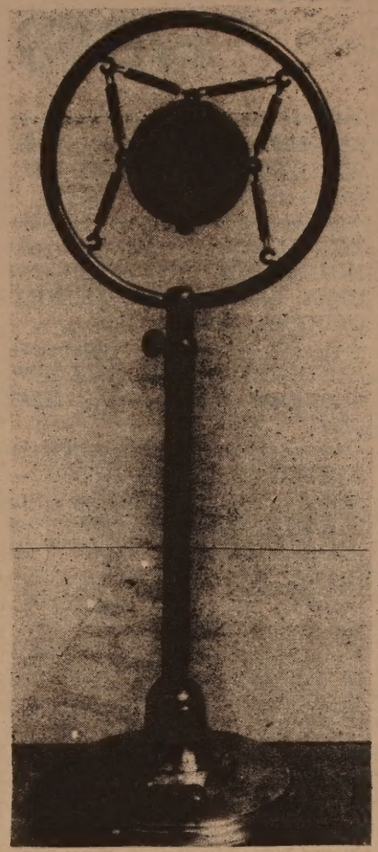
WANTED



MICROPHONES of this kind or any nice ones from 1920 to 1940's. Please send photo with prices to 1900-2000 gallery- 8, Rue Bonaparte- 75006 Paris France.

WANTED — PHILCO CHASSIS FOR 51, 51A, 52 OR 551. Any condition. Will buy complete set if needed. Michael Payne, Route 5, Box 796, Alvin TX 77511.

WANTED: R. E. THOMPSON HORN SPEAKER (EXCELLENT) FOR MODEL V-5 RADIO. WRITE: PAUL O'PATIK, 316 RUTHERFORD AVENUE, FRANKLIN, NJ 07416.

ANTENNA FOR DeFOREST D-10. good or restorable. C. M. Crysler, 403 Manor Road, Wexford, PA (412) 935-4126.

OWNER' MANUEL OR COPY FOR 1955 ZENITH TransOceanic model 1600? (the model number is not very legible but I think it is 1600), chassis 6T41Z. Glenn McCrory, 924 West 6th Street, Storm Lake, Iowa 50588.

WANTED WIRING DIAGRAMS and service info for Browning Drake 5R receiver and Kellogg 507 receiver. good Xerox OK. Jay Reed, 932 Logenberry Trail, Casselberry, FL 32708. (305) 699-0039.

WANTED: SILVER MARSHALL PLUG IN COILS TYPE 114, PLUGS INTO RING TYPE SOCKET. COIL FORMS OK. ALSO HAMMARLUND OR SHORTWAVE AND TV LABS COIL FORMS. BOB, W6ME, 4178 CHASIN STREET, OCEANSIDE, CA 92056.

WANTED = TWO BRASS BASES FOR A K model -M- horn speakers or will trade one horn for one base. Ken Frankenberry, 410 Sadler Street, Point Marion, PA 15474.

WANTED: CITIZEN BAND RADIO, tube type — working or not. —— Gary Cappoen, Route 1 Box 131-A, Newberg, OR 97132.

WANTED = CROSLEY MODEL 48 CHASSIS for midget, 3-24-1-45-1-80 —— Art Corbus - 5704 - 11th Avenue N.W., Seattle, WA 98107.

WIRING DIAGRAM AND/OR SERVICE INFO Kellogg model 507 receiver and Browning Drake 5R receiver. Xerox OK. Jay Reed, 932 Logenberry, Tr., Casselberry, FL 32708.

SERVICE and/or USER'S MANUAL for Collins KWM-1, Jim Cranhaw, Box 53012, Dallas, TX 75253.

WANTED — FACTORY XTAL SETS and also xtal detectors— have early magazines, tubes and telegraph pieces for trade or other. — Michael Payne, Route 5 Box 796, Alvin, TX 77511.

A. K. BREABOARD PARTS— VERT.-HORZ. COILS- 3 STAGE DETECTOR-AMPLIFIERS, RHEOSTATS- AF TRANSFORMERS AND CONDENSERS IN CANS. Dewitt L. Bills, 5237 Upton Avenue North, Minneapolis, MN 55430.

WANTED: SUPER ZENITH VIII in good or repairable condition. - R. Burick, 7656 Broadview Road, #328, Parma, OH 44134 (216) 886-5923.

WANTED: FARRAND MAGNETIC cone speaker, Browning Drake receiver, Peerless 9" dynamic speaker. R. McNeill, box 472, Yorkton, Sask., Canada S3N 2W4.

WANTED: 1. FREED EISEMANN advertisement material. 2. Cabinet for Radiola III. 3. Operating booklet for Radiola III and IIIA. 4. Radiola IIIA in good to mint condition. Thomas S. Estes, 5555 West Gulfbank #911, Houston, TX 77081.

WANTED: KARLSON SPEAKER ENCLOSURE IN RELATIVELY GOOD CODITION. MARK SKINNER, 1420 ANNA ROAD, PEKIN, IL 61554. (309) 353-1882.

WANTED: BRASS OR FANCY decorated paneled radios, fancy cathedrals, horns in excellent or mint condition, 1 tube sets and WD 11 tubes. Rod Stidham, 4011 South 286th, Auburn, WA 98001.

SCOTT COLLECTOR NEEDS SCOTT 12 two dial parts, escutcheon, knobs and cabinet. Wanted to buy Scott Philharmonic. Denis Yanko, 410 N. Summit, Oconomowoc, WI 53066, (414) 965-3641. Collect after 5:00 cst.

WANTED: VERY GOOD R.C.A. MODEL 103 SPEAKER. WILL PAY $90.00 FOR SPEAKER IF IN MINT CONDITION. LET ME KNOW WHAT YOU HAVE. WOULD LIKEIO BUY THE BEST ONE I CAN GET. QUOTE YOUR PRICE AND CONDITION. RON BURIZOS, 915 CRANE, DeKALB, IL 60115.

SCOTT: SCOTT RADIO COLLECTOR wants to purchase Scott Philharmonic, any version. Also, would anyone with a Scott Napier Consoltte, please contact me. I have a question concerning it. Denis Yanko, (414) 964-3641 collect after 5:00 cst., 410 N. Summit, Oconomowoc, WI 53066.

SPHERICAL or TUBULAR AUDION, #5514 transmitting tube. top for Radiola 106 speaker. Early light bulbs. Will buy or trade for tubes. Harbeck, 13408 Westwood Ln., Omaha, NE 68144.

WANTED: 1924 GOLDEN - LEUTZ 9 tube Super Pliodyne. also, any information on Raven Radio 12 tube superhet. Duane Bylund, 5133 West 5400 South SLC, Utah 84118, (801) 967-6987.

WANTED: SOURCE FOR ASTATIC OR RCA CARTRIDGE AND NEEDLE FOR 1950'S RCA PHONO. DAVID HAMMON, 1117 EAST FIRST STREET, LONG BEACH, CA 90802

BURNS PYRALIN SHELL AND RADIOLA UZ-1320 LOUDSPEAKER. DIAL FOR PHILCO 37-61. DALE WILSON, 105 1ST STREET WEST, JORDAN, MN 55352. (612) 492-6338.

WANTED: 1 TUBE SETS, CRYSTAL SETS, GREBE CR EQUIPMENT. RAY GARNER, ROUTE 1, BOX 320, BIG SANDY, TN 38221.

ELECTRO- MEDICAL AND QUACK DEVICES, BOOKS WANTED. INTERESTED IN FLOOR MODELS AND IN DEVICES WITH MULTIPLE KNOBS RESEMBLING RADIOS BUT WHICH ARE NOT RADIOS. I AM ALREADY SATURATED WITH VIOLET RAY DEVICES, SIMPLE 4D BATTERIES. PLEASE DESCRIBE AND PRICE. OLE LINDAN, 1404 DORSH ROAD, CLEVELAND, OH 44121

WANTED: ANY AND ALL INFORMATION on the "Radio-Pen" facsimile receiver by John V. L. Hogan, August 1934 Radio News. Anyone who owned and operated? D'Arcy Brownrigg, P. O. Box 292, Chelsea, Quebec, Canada, JOX 1NO.

RCA AND AC A.K. CATHEDRAL in very good to mint. AC A.K. Kiel parlor table with original finish, with or without chassis; 5 Zenith knobs for farm radio, page 191 F.O.S., Jeff Vance, 1819 West Rovey, Phoenix, AZ 85015.

WANTED: PLUG-IN COILS, 4-5-6 PRONG TYPES, WITH GOOD WINDINGS, SINGLES OR SETS. BOB, W6ME, 4178 CHASIN STREET, OCEANSIDE, CA 92056

VU METER for Roberts Re[illegible] Tape Recorder Model [illegible] Part No. 54-13. Cecil E. Wallace, 1345 Oak Meadows, Dallas, TX 75232.

WANTED - WANTED BUYERS (CASH) FOR A 45 YEAR ACCUMULATION AND COLLECTION OF OLD RADIOS, SPEAKERS, TUBES, PARTS, TEST EQUIPMENT, METERS, SERVICE MANUALS AND RADIO PAPER, MAGAZINES, A FEW TRUCK LOADS NO LISTS BUYER TO REMOVE AND TAKE ALONG. KRANTZ, 100 OSAGE AVENUE, SOMERDALE, NJ 08083. (609) 783-0400.

NEEDED: A COMPLETE ORIGINAL MAGNETIC "pickup", in as good an original working condition as is possible, for the electronic restoration of a 1929 R.C.A. Victor model no. RE-45 combination radio/ phonograph. David E. Smith, #40 Cortez Drive, Florissant, MO 63031-4121.

BURNS PYRALIN SHELL AND RADIOLA UZ-1320 LOUDSPEAKERS. Plastic dial scale for Philco 37-61. Dale Wilson, 105 1st Street West, Jordan, MN 55352.

WANID: PILOT AC SUPER WASP WITH COILS, MUST BE IN GOOD CONDITION. CASH OR TRADE ATWATWER KENT BREADBOARD COMPONENTS. BOB HERBIG, W6ME, 4178 CHASIN STREET, OCEANSIDE, CA 92056.

WANTED: WORKING A-B-C BATTERY eliminator and home battery box for Radiola 26. Rod Stidham, 4011 South 286th, Auburn, WA 98001.

ARBORPHONE MODEL 27 COMPLETE IN ANY CONDITION OR CABINET, CHASSIS, PARTS, SCHEMATICS AND INFORMATION FOR USE IN RESTORATION PROJECT. WILL ALSO BUY OTHER MODELS OF ARBORPHONE RECEIVERS. Send details and prices asked to: P. A. Kinzie, 713 East Beale Street, Kingman, AZ 86401.

REPRODUCTION MODEL of original Philco 90 model style. Has cathedral cabinet and AM-FM. Contact W. Pregnall, 774 Woodward Road, Charleston, SC 29407.

WANTED - ZENITH RADIO SIGNS. DISPLAYS, ADVERTISING, ETC. PRE 1935. CALL MONDAY THRU FRIDAY. 8 TO 5. (312) 357-4955.

RCA MODEL 813-K CONSOLE RADIO, Jim Coleman, P. O. Box 2758, Redwood City, CA 94064.

WANTED: TUNING CONDENSER for Philco model 60, also tuning dial and knobs. (715) 823-6744. Russell Schoen, R#1, Box 224, Clinton[illegible]ville, WI 54929.

[illegible]: PILOT PARTS— AUDIOS 391 [illegible] 390... E. A. SMITH, 2714 [illegible]EN, BALTO, MD 21234.

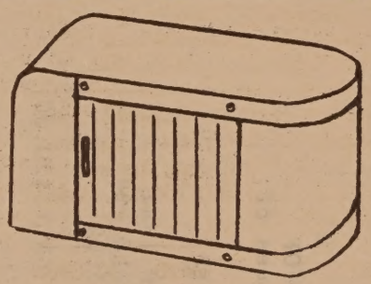
"GREBE PORTABLE, camera-radio portable and other unusual portables... writing historical paper. Also want WWI items, DeForest and fancy horns. Have some radios to sell (send SASE). Mel Rosenthal, 507 S. Maryland Avenue, Wilmington, DE 19804. (302) 994-0874."

— WANTED — HALLICRAFTER "SKY BUDDY" 1936 MODEL 5-T "FLICK OF THE SWITCH" PAGE 225. JACK WALLACE, 5516 GILBOW AVENUE, RIVER OAKS, TX 76114 (817) 732-5189.

B & W COAXIAL ANTENNA changeover relay model 377 or equivalent. Q. R. Galbraith, K5TVC, 4303 Kingsway Drive, Farmington, NM 87401.

NEED PARTS FOR MUSIC MASTER HORN SPEAKER, Nathan Francis, 2020 Hanover Circle, Beaumont, TX 77706.

WANTED: OLD TUBE TYPE CITIZEN BAND RADIOS COMPLETE, WORKING OR NOT. GARY CAPPOEN, RT. 1 BOX 131-A, NEWBERG, OR 97132.



WANTED — DICTOGRAPH SILENT RADIO. HAS REAR PLUG FOR PILLOW SPEAKER. SLIDING DOOR. LIGHT COLOR WOOD. MODEL 1320. ALSO CALLED FADA 263. KRIS GIMMY, 1441 NOTTINGHAM DRIVE, AIKEN, SC 29801. (803) 649-9795.

WANTED- SIX IVORY TABS for Zenith model 6S254. Tabs cover tuning selections, under push buttons. FOR SALE: Large amount of QST books. Will trade or sell very cheap. Also Zenith 5J255 model 6 volt or 110 volt. Russell Schoen, R# 1. Box 224, Clintonville, WI 54929. (715) 823-6744.

CROSLEY SKY BUDDY, Gary Hill, 1507 Ridge Avenue, New Castle, PA 16101 (412) 654-9335.

DECO, COLORED BAKELITES, Catalins wanted. Also need Riders "INSIDE THE VACUUM TUBE", plus chart for my Supreme tube Tester #589A. (I buy, sell and trade used cameras). Harry Poster, box 1883H, South Hack, NJ 07606. (201) 794-9606.

WANTED — RIDERS ONE THRU 10 AND LATER. (NOT 1 TO 5 ABRIDGED) FRED EMERSON, 627 ILLINOIS AVENUE, ELGIN, IL 60120.

HOWARD MODEL 500, 501 OR 501 DELUXE. Kennedy model 66, such as 266B, 366A, 366B, 766B, 866B. Also 16 tube superhetrodyne deluxe Kennedy. — Tom Peters, P.O. Box 3925, McAllen, TX 78502.

RIDER MANUALS Vol 3, 4, 5, 6, 8, 11, 12, 13, 15. — Volume 8 of Hawkins Electrical Guide, 1st edition 1914 and second edition 1917. — Early (1930's and before) test equipment and laboratory grade meters. —— Herbert Haas, 8516 Thunderbird Lane, Dallas, TX 75238. (214) 341-2708.

WANTED: RESTOREABLE CABINETS— Philco mod. 20, 70, 90 cathedrals. junker sets ok. Ben Boswell, 8607 Stillwood Lane, Austin, TX 78758.

WANTED: MAJESTIC RADIOS IN EXCELLENT CONDITION. Specifically want Majestic models 300, 320, 340 and 360. These were 11 and 12 tube sets manufactured in 1932, 1933 and 1934 by Grigsby-Grunow Company. No junkers please. Ralph Mathis, 108 Adams Avenue, Okolona, MS 38860. Phone (601) 447-2026.

GENERAL ELECTRIC VRII cartridge for 78 RPM. Advise Jose Fernandez, 208 Eleanor Roosevelt Street, Hato Rey, Puerto Rico 00918.

RADIOLA GRAND, PLUS COLORED AND SWIRLED THICK BAKELITES, CATALINS, ETC. NEED SCROLL FOR SUPREME 589A TUBE TESTER. Riders: "Inside the vacuum tube." Harry Poster, Box 1883H, South Hackensack, NJ 07606 (201) 794-9606.

WANTED: PILOT AC SUPER WASP PANEL IN GOOD CONDITION, OR JUNKER WITH GOOD PANEL. CASH. —— NICK BALLI, 931 FALCONER LANE, ESCONDIDO, CA 92027.

VOLUME ONE, HINTS AND KINKS FOR THE RADIO AMATEUR, BY THE AMERICAN RADIO RELAY LEAGUE. K4LVZ, POB 562144, MIAMI, FL 33256.

NEED TO PURCHASE OR CAN YOU MAKE? NEED BROOM MECHANISM FOR MINATURE MUSIC BOX WHICH HANDLES METAL DISCS 4 1/2 INCHES IN DIAMETER. CONTACT: WINNIE LEATHERS, 1430 CEDARBROOK, HOUSTON, TX 77055. (713) 465-5878.

WANTED: DeFOREST equipment. Need chassis for interpanel set. Also looking for Model F-5M. R. Burick. (216) 886-5923.

WANT GOOD RIDER'S RADIO VOLUME 4. WARREN KERNAGHAN, (816) 942-3615. 8:00 A.M. TO 9:00 P.M., 901 E. 108 STREET, KANSAS CITY, MO 64131.

Will buy junkers to get restorable cabinet. Write Howard Granoff, 2445 Lyttonsville Road, Silver Spring, MD 20910. (301) 585-8776.

WANTED CHASSIS FOR AK 90 OR 80. Cabinet for Philco 118. Vaughn Rudisill, 45 Lehigh Lane, Hicksville, NY 11801. (516) 681-4642.

WANTED: RCA PRERECORDED classical open reel tapes, 2 track stereo and 4 track quadraphonic. Write with list or request my want list. Carleton Sarver, 256 West 88th Street, New York, NY 10024. (212) 874-3529.

WANTED: RADIO NEWS (1925 - 26) article on building one tuber using three circuit tuner. Ed Lindberg, W2CIL, Bowmansville, NY 14026.

I WANT SOME UX-216 TUBES, ATWATER KENT MODEL - 36 IN EXCELLENT, ORIGINAL CONDITION, PRE- 1890 LIGHT BULBS THAT STILL BURN. I AM SELLING EDISON PHONOGRAPHS, MODEL - K EDISON REPRODUCERS, ORIGIONALS: $100 EACH. EXCELLENT REPRODUCTIONS, $65.00 EACH. - J. R. WILKINS, BOX 3442, ARLINGTON, TX 76010 OR (214) 298-5587.

WANTED: MANUFACTURING SERVICES FOR VINTAGE TV SCANNING DISCS. DISC MATERIAL SHOULD BE ALUMINUM ALLOY AT A THICKNESS OF NO MORE THAN 1/30" WITH A CERTAIN DEGREE OF FLEXABILITY IN ORDER TO RUN DEAD TRUE AT HIGH RPM. VINTAGE TV BUFFS WELCOMED. D'ARCY BROWNRIGG, P. O. BOX 292, CHELSEA, QUEBEC, CANADA, JOX 1NO.

COPY OF ANY INFORMATION ON A WWI BC 9 TRAN + REC. — FLOYD ENGELS, DAVIS ROAD, COLDEN, NY 14033.

SOME ONE WITH THE INSTRUCTION DATA FOR SUPREME RADIO DIAGNOMETER AAA-1 AND WILLING TO MAKE ME A COPY. I'LL PAY EXTRA FOR A GOOD CLEAR COPY. WRITE GERALD E. WEISS, N-89 W-16229 MAIN STREET, MENOMONEE FALLS, WI 53051.

GREEN MIRRORED GLASS RADIO. Will buy or swap from my DECO collection. ED SAGE, 1781 HELANE COURT, BENICA, CA 94510 (707) 746-5659.

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